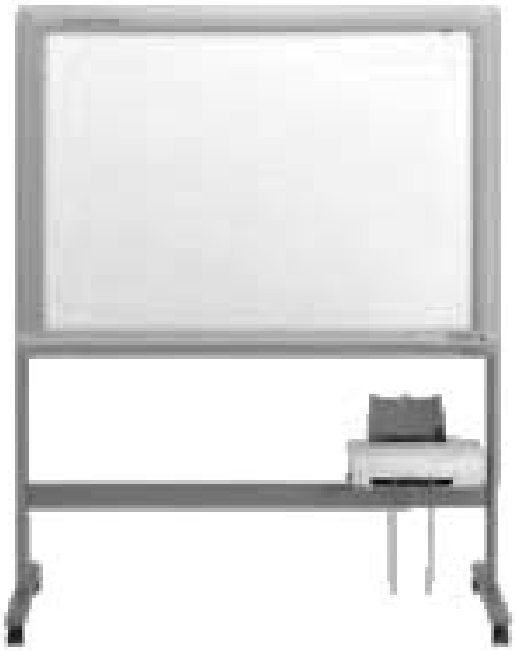
NICHIGAKU ELECTRONIC COPY BOARD

(with 4 Color Printing / ordinary paper supported projector screen)

PLAN:TAGE

LF-31S · LFW-31S · LF-32 · LFW-32
LF-33S · LFW-33S · LF-34 · LFW-34

USER MANUAL



Nichigaku

INTRODUCTION

Thank you for purchasing Nichigaku Products. This user manual was prepared to ensure that you understand the precautions and ensure the correct use of this product.

Please take time to read this manual in order to fully utilize its capabilities when used.

Please read the section on "Correct and Safe Use of this Product" before using this product and keep this manual in a place where it can be readily retrieved for reference when needed.

SUMMARY

Copyboard is an electronic whiteboard designed to improve the efficiency of day to day meetings that can be used to copy the contents written manually on the white board in 4 colors. The contents may be projected on a screen.

Feeding the whitesheet and copying is done over the operation panel on the main body.

Product numbers referred to in the subsequent sections are as follows.

Product Number	Specification	
LF-32	Two-screen type	
LFW-32		Wide
LF-34	Four-screen type	
LFW-34		Wide
LF-31S	"Two-screen type	
LFW-31S	(One-screen projection screen)"	Wide
LF-33S	"Four-screen type	
LFW-33S	(One-screen projection screen)"	Wide

Correct and Safe Use of the Product

-- Make sure to read this section before using the product --

Read this section to make sure that the product is used correctly and safely and to prevent harm to you and other persons as well as forestall damage to property

Warning	**Indicates possible loss or life or grave injury.**
Caution	**Indicates possible injury to persons and possible damage to physical objects.**

-- Example of graphic symbols --

The symbol ⃠ indicates prohibited action.
The image inside the symbol refers to the specific action prohibited.
(The figure on the right means do not dismantle the product.)

The symbol ● indicates an action that must be done.
The image inside the symbol indicates the action must be done.
(The figure on the right means that the electric plug should be pulled out from the outlet.)

-- Precautionary Items --

■ Place of Installation

⚠ Warning

● **Do not place in damp places**
Do not use in damp places such as near bathtub or humidifier.
This may result to fire or electrocution.

⚠ Caution

● **Do not place near fires**
Do not place the main unit and electrical cord near objects that generate heat like heaters, etc

● **Do not place in hot places**
Do not expose to direct sunlight nor place in hot places to prevent the internal temperature from rising that could lead to fire.

● **Do not place where the product may be exposed to oil or steam**
Do not place near cooking tables where the product is exposed to oil and vapor or in dusty places to prevent fire or electrocution.

- **Do not place in unstable places**
  Do not place on unstable places like shaky tables, and inclined places. Further, do not place heavy objects on the main unit to prevent loss of balance that could lead to the unit toppling or falling over.

- **Caution with the caster locks**
  When the caster is attached, make sure the caster is locked to prevent the unit from toppling or falling over and cause injury.

■ Using the Product

(1) What to do when the following happens

⚠ Warning

- **When smoke occurs**
  In the unlikely event when smoke or unusual smell appears, continued use of the unit may lead to fire or electrocution. Put off the power supply at once, pull out the plug, check that the smoke stops and call the maintenance service shop at once. Do not attempt to repair the unit. It is dangerous to do so.

- **When unit breaks down**
  In the unlikely event that the unit topples or falls over, put off the power supply at once, pull out the electrical plug from outlet and contact the maintenance service shop. Continued use might lead to fire or electrocution.

- **When water infiltrates the unit**
  In the unlikely event that water infiltrates the unit, put off the power supply at once, pull out electrical plugs from outlet, and call the maintenance service shop. Continued use may lead to fire or electrocution.

- **When foreign material infiltrates the unit**
  Do not insert or drop metals or flammable materials in the small gaps in the unit. When a foreign material infiltrates inside the unit, immediately put off power supply, pull out the plug, and call the maintenance service shop. Continued use might lead to fire or electrocution. Please exercise care especially at home or when kids are present.

(2) Power Supply

⚠ Warning

- **Do not use power supply other than AC 220V-240V (Regular Power Supply)**
  Never use power supply other than AC 220-240V, (60 Hz). This might lead to fire and electrocution. When it is unavoidable and other devices are used on the same outlet, make sure that the total current does not exceed the maximum capacity of the outlet.

- **Precautions on handling power cords**
  Do not damage, work on, bend forcefully, pull, twist or tie the cords into knots. Further, do not place heavy object on the wire, heat the wire nor damage the cord. Fire and electrocution might result.

- **Do not operate with wet hands**
  Do not operate with wet hands. You might get electrocuted.

- **Do not connect several devices to one extension cord.**
  Do not connect several devices to table top, branching outlets or branching sockets. This might lead to fire or electrocution.

⚠ Caution

- **Handling of plugs**
  Always pull out electrical plugs gripping the plug not the line.
  Pulling the line cause break on the line and lead to fire or electrocution.

- **Precaution when turning the power off**
  When printing is done, wait at least one minute before turning the power off.

- **Precaution when connecting to ground**
  When using the unit in damp places, make sure to connect the equipment to ground. Ground connection may be done in the following:
  – Ground terminal of outlet.
  – Bury bronze stick 65cm or deeper into the ground.
  – Grounding works (class 3) connection terminal.
  Do not connect ground of unit to the following:
  – Gas pipe, ground for electromagnetic use, lightning rod, water pipe.

(3) Do not do the following:

⚠ Warning

- **Do not connect to other printers**
  What is written on the white sheet can be printed only with the printer for the unit. Connecting with other printers may lead to trouble or failure.

- **Do not connect to personal computers**
  Do not connect the main unit to personal computers and print. This will lead to trouble or failure.

- **Do not remodel**
  Do not remodel this device. This may lead to fire, electrocution or injury.

- **Do not dismantle**
  Do not remove the cover (cabinet, etc.) of the device. This may lead to electrocution.

- **Do not wet the unit**
  Take care not to wet or allow water to infiltrate. This may lead to fire or electrocution.

⚠ Caution

- **Do not ride on the unit**
  Do not ride on, sit on, lean on the device, especially with children around. The unit may topple, get broken, or cause injury.

- **Do not do the following while sheet is moving**
  Do not touch the white sheet when it is moving. Your arm or fingers may get caught and injured.

(4) Other Precautions

⚠ Warning

- **Take care not to insert foreign objects**
  Do not place flower vase, potted plants, cups, cosmetics, medicine, container with water and other small metallic objects. When the contents spill and infiltrates device, fire or electrocution might result.

⚠ Caution

- **Precaution during lightning**
  Do not touch cord when there is lightning. This may result to electrocution from lightning.

- **Cleaning the electrical plug**
  Wipe and remove dust and particles that accumulate between plug and outlets regularly (about once in six months).
  Dust may cause fire.

- **Precaution when not used for long time**
  When not to be used for a long time, make sure to pull out plug from the outlet.

- **Precautions when printing**
  Do not place your hand inside printer when printing. Parts are moving inside and might cause injury.

- **Care for ink cartridge**
  Do not shake nor drop the cartridge. Ink might leak out and dirty the surroundings or clothes.

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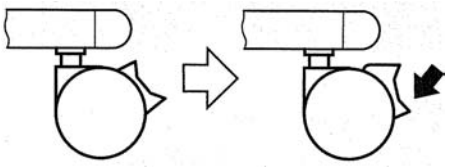
1 Precautions in Handling

Where to Place

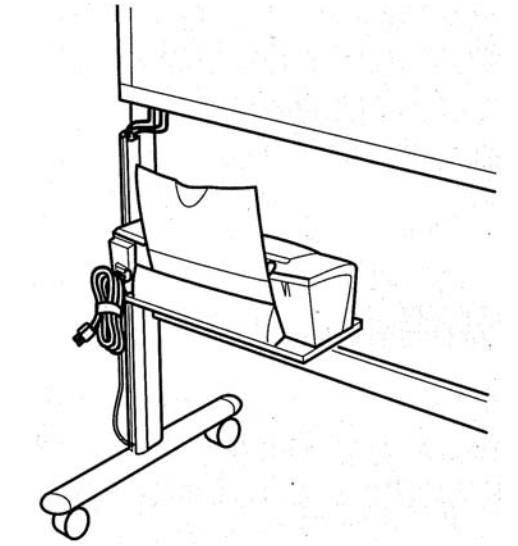
- Do not place where the product is exposed directly to sunlight, near the stove, etc.
- Do not place where the product lies along the path of airblast from cooler, air-con, etc.
- Be sure to lock the casters in place when not moving the unit.
- Place on level floor and vibration free.



Unlocked Locked

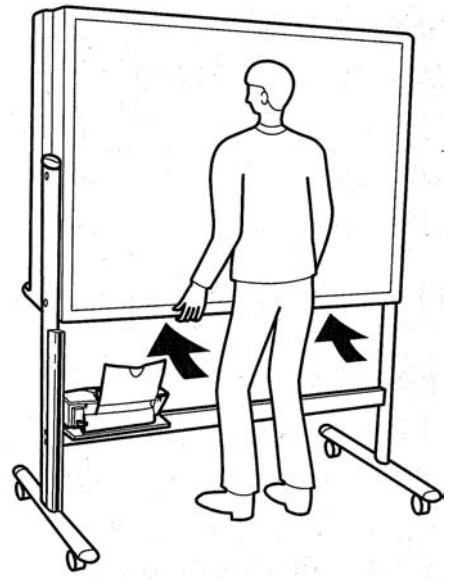
Moving the Product

- When smoke occurs
  In the unlikely event when smoke or unusual smell appears, continued use of the unit may lead to fire or electrocution. Put off the power supply at once, pull out the plug, check that the smoke stops and call the maintenance service shop at once.
  Do not attempt to repair the unit. It is dangerous to do so.
- When unit breaks down
  In the unlikely event that the unit topples or falls over, put off the power supply at once, pull out the electrical plug from outlet and contact the maintenance service shop. Continued use might lead to fire or electrocution.
- When water infiltrates the unit
  In the unlikely event that water infiltrates the unit, put off the power supply at once, pull out electrical plugs from outlet, and call the maintenance service shop. Continued use may lead to fire or electrocution.
- When foreign material infiltrates the unit
  Do not insert or drop metals or flammable materials in the small gaps in the unit.
  When a foreign material infiltrates inside the unit, immediately put off power supply, pull out the plug, and call the maintenance service shop. Continued use might lead to fire or electrocution. Please exercise care especially at home or when kids are present.

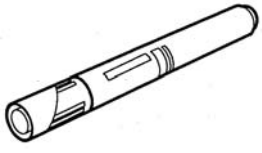


Precautions on Writing

- See 13 Consumables (page 35) for markers that may be used.
  Using markers other than the recommended markers may not copy correctly.
- Never use sign pen, ball pen, oil-based marker. What is written with these can not be erased.
- Do not attach paper on the whiteboards using tape pins. Do not strike the board with sharp objects.
- Do not erase or lean on the board while it is moving.
- Use the optional carrier sheet to make a copy of data attached to screen.
  Use one sheet per screen for maximum of two screens.



> Marker for use on whiteboard



Precautions in using the projection screen

The projection screen is especially made for good projection. Dirt and scratches witl adversely affect projection, hence, be sure to observe the following.

- Dirt is clearly projected. Do not touch the projection screen.
- Never use markers for white sheet, sign pens, ball pens and oil based markers on the projection screen. These cannot be erased.
- Do not rub or scratch with hard objects. This may damage the screen.
- Do not use tapes, carrier sheet (format sheet).

Printing Paper

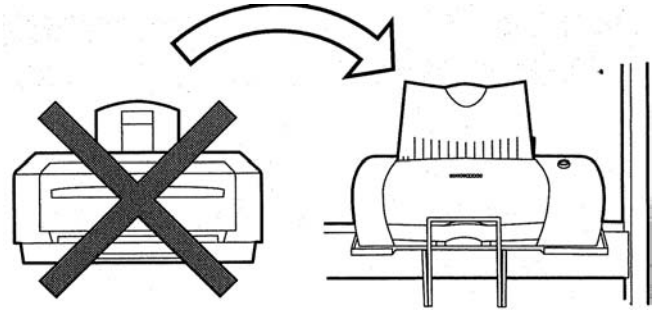
- Use ordinary A4 size paper.
- Do not store papers in hot, humid places or exposed to direct sunlight.
- Read section 5 (page 17) for papers that can be used.

Power

- Do not use power supply outlet other than AC 220V-240V, 3A.
- Do not step on or bend the power cord.
- Do not turn the power off while printing or scrolling the whitesheet. This will lead to failure. Turn off power after operations are completed.
- Turn off power when not using the equipment to save power and maintain functonality.

Connecting the Printer

- The printer that comes with this equipment is exclusive to plantage. Connecting other printers is not recommended. Connecting to personal computer might damage the equipment. Never do these.



Daily Maintenance

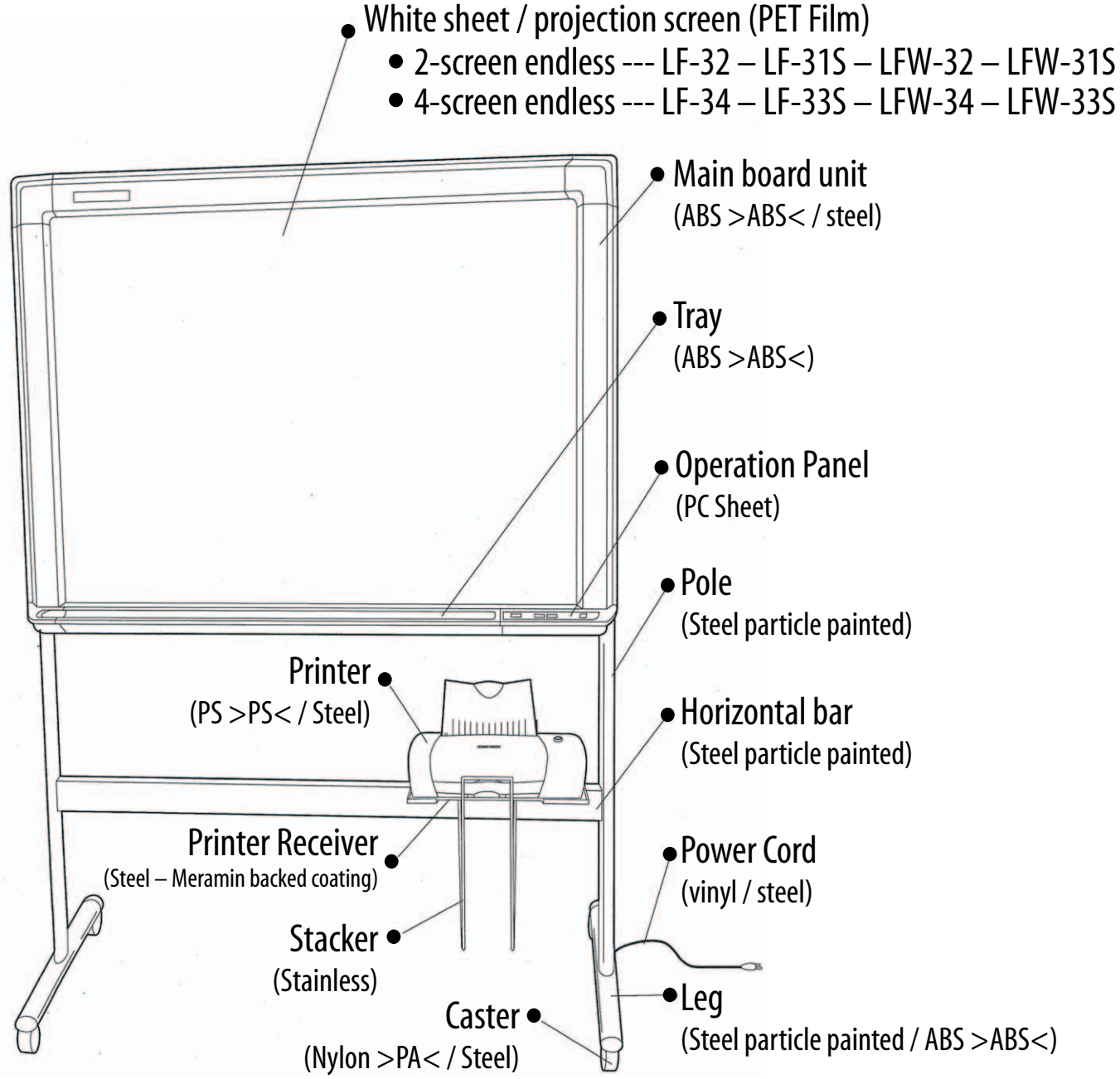
- Exercise care to ensure that equipment can be used in the best possible conditions at all times.
- Dust and dirt from erasures cling easily on the white sheet. When this cannot be removed, clean the white sheet with cloth dipped in water to wipe away dirt.
- When marker traces cannot be removed with eraser or dry cloth, wipe with cloth moistened with alcohol. Do not use thinner.
- Dirt from marker clings to the eraser (blackboard eraser). Tap the eraser lightly to drop the dirt.
- When dust and erasure dirt accumulates on the tray, dip cloth on water, wring the cloth thoroughly and wipe off the dirt and dust.
- When the operation panel of the main unit becomes dirty, dip cloth in water or neutral solution and wipe off the dirt.

Maintaining the projection screen

- Dust and dirt on the board and tray for marker dirt can dirty the projection sheet. Clean thoroughly.
- Take away dust and marker dirt from the projection screen with brush lightly. Never wipe off marker dirt with dry cloth. This will make the sheet surface dirty.
- Never use chemicals such as Benzon, thinner and so forth.
- In case the screen is wrongly written with marker for whitesheet, lightly wipe off with 10x dilute neutral solution and take care that no solution remains, carefully wipe dry with cloth dip in water and tightly wrung.

2 Main Board Parts and Functions

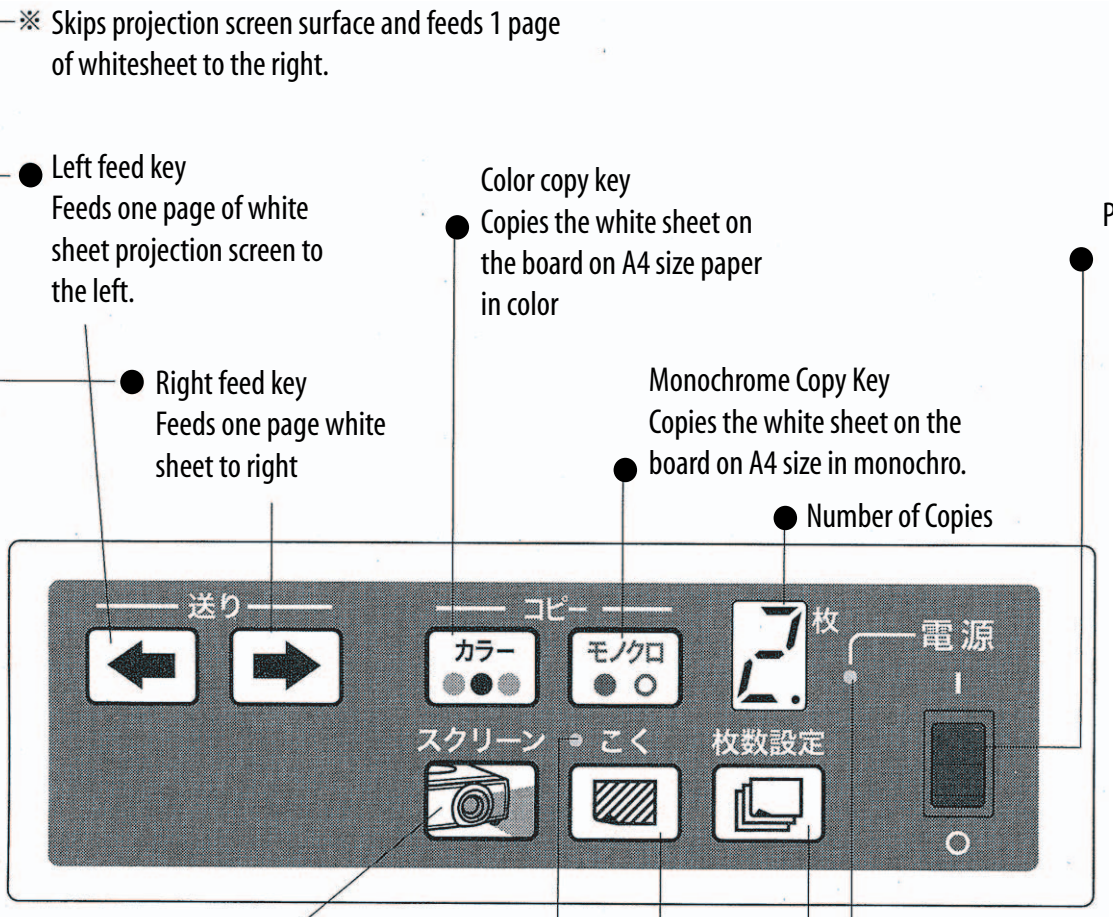
● **Main board unit** ( ) parenthesis indicates the material used.



● Operation Panel

When the lamp indicator for number of pages blinks, see page 22 for error display.

LF-31S • LF-33S • LFW-31S • LFW-33S



※ Skips projection screen surface and feeds 1 page of whitesheet to the right.

● Left feed key
Feeds one page of white sheet projection screen to the left.

● Right feed key
Feeds one page white sheet to right

Color copy key
● Copies the white sheet on the board on A4 size paper in color

Monochrome Copy Key
● Copies the white sheet on the board on A4 size in monochro.

● Number of Copies

Power Switch
● Switch to " | " to use.
● Switch to " ○ " to put off after use.

Screen Key
Projects to screen whatever page is being used

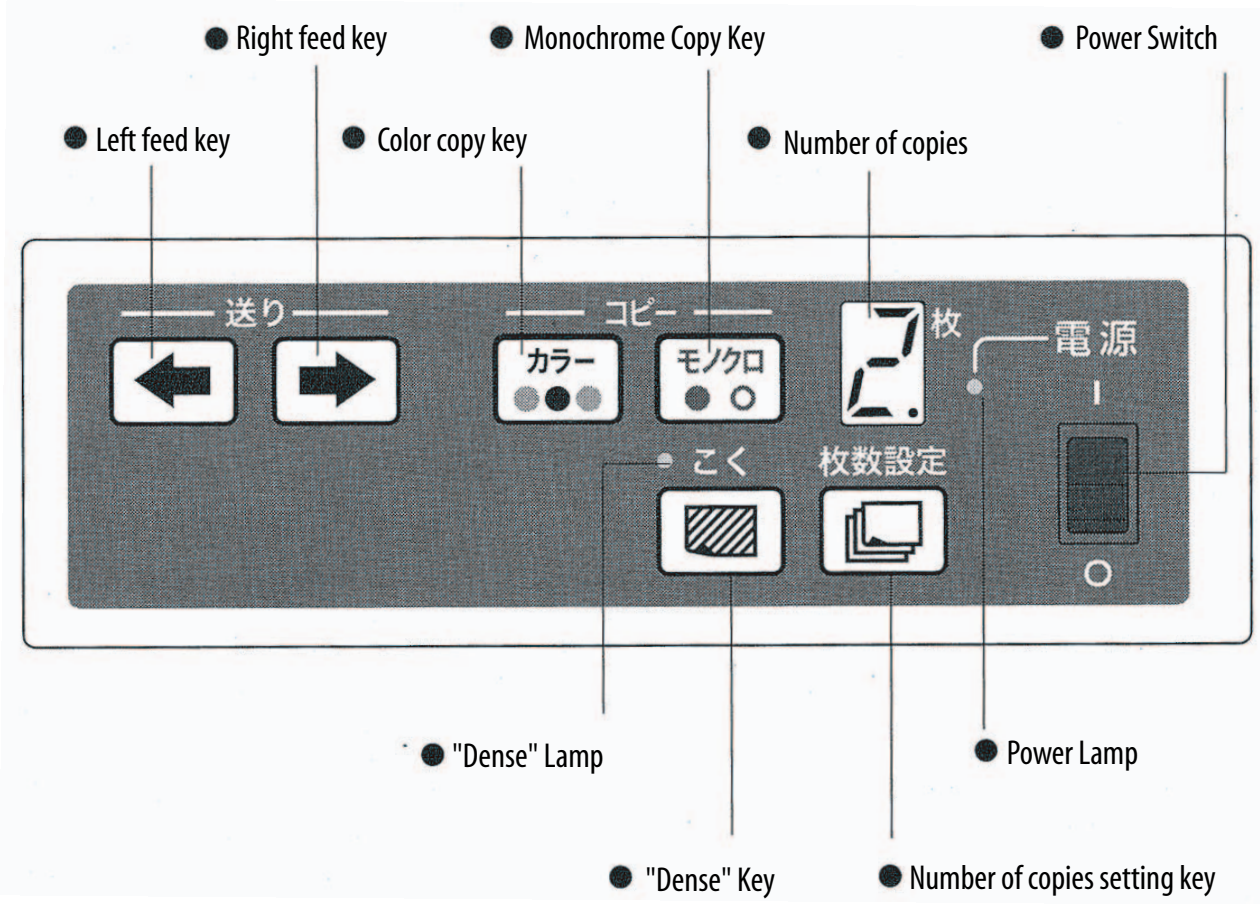
"Dense" Lamp

● Power Lamp

"Dense" Key
Pressing "Dense" key prints "dense" copy even for pale characters.

● Number of copies to print Setting Key
● Press the number of copies to print.
● 1~9 copies should be printed.

LF-31S • LF-33S • LFW-31S • LFW-33S



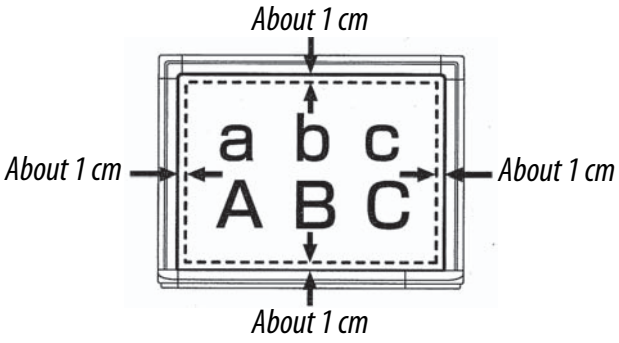
3 Operation

1 Power Supply

- Insert the power cord into the AC 220V outlet and switch to "|". Green lamp for power lights up.
- Putting the power on automatically matches pages, indicating the screen as number and that the equipment is ready.
- When no key is pressed one hour after the power is put on and lamp lits up, the lamp automatically goes off. Everytime a key is pressed, the lamp goes off after 1 hour when no subsequent operation is done.
- No copying can be done within 10 seconds after power is put on. Further, there are instances when the room temperature is low where the copy concentration does not stabilize in 1 hour after power is put on or after operation is done. Wait for 3 minutes before copying.

2 Handwriting

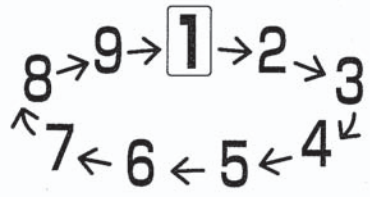
- Use the recommended markers to write on white sheet.
- The area within 1 cm from the edges cannot be copied. (outside the dotted line on the figure to the right)



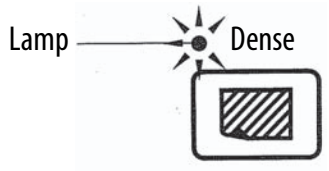
Copying to Printer

▶ Setting the number of copies

- Copying starts simply by pressing the copy key after setting the number of copies.
- Up to 9 copies may be copied. The counter changes display from 1 to 9 as copying proceeds and then returns 1.

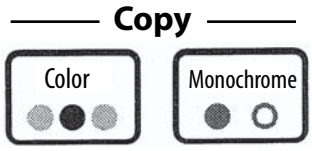


Setting the copy concentration

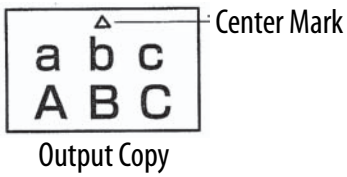


- Pressing "Dense" Key lights up the green lamp and copies the "pale" characters dense.
- Pressing "Dense" key once more puts off the green lamp and copy concentration is restored to standard concentration.
- ✲ When set to "Dense", black spots may appear on white spaces.
- ✲ When power is turned off, the copy concentration is restored to standard concentration.

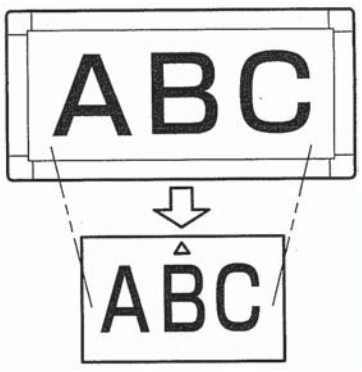
Retrieving Copies



- Set the paper to use. See 4. Setting the Paper (page 16)
- カラー Pressing the copy key copies what is shown on the white sheet on A4 paper in 4 colors.
- ✲ Disabled when the projection screen is active.



- Outputted copies have center mark for use. When centering punch holes during filing of the copies.



- For widetype screen, the copy is shrunk.

- ✲ Put off power one minute after copying is finished.

Moving the white sheet and projection screen

● Moving the white sheet / projection screen without copying.

Feed

● Left feed

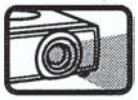
- ■ Feeds one page only to the left.
- ■ Skips projection screen and feeds one page to the left.

Feed

● Set the paper to use. See 4. Setting the Paper (page 16)

- ■ Feeds one page only to the left.
- ■ Skips projection screen and feeds one page to the left.
- ■ Skips projection screen and feeds one page to the left.

Screen



● Screen
The projection screen may be drawn out from whatever page.

● Moving manually

Although it is possible to move to left or to right manually, avoid doing this. Fast movements may lead to failure.

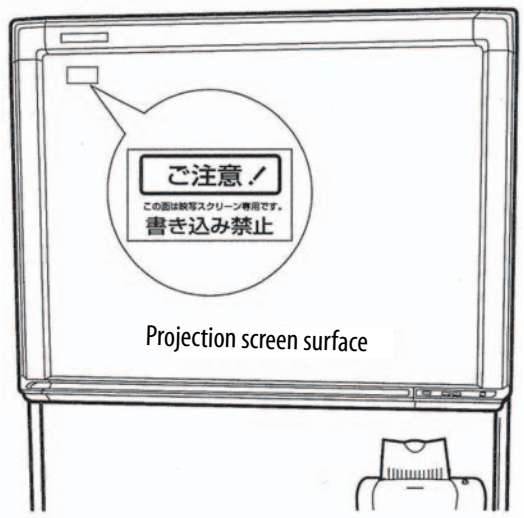
Retrieving Copies

① For models with projection screen, press the Screen key to bring out the projection screen page.

※ The upper left corner where the "Caution" label is attached is the projection screen page.

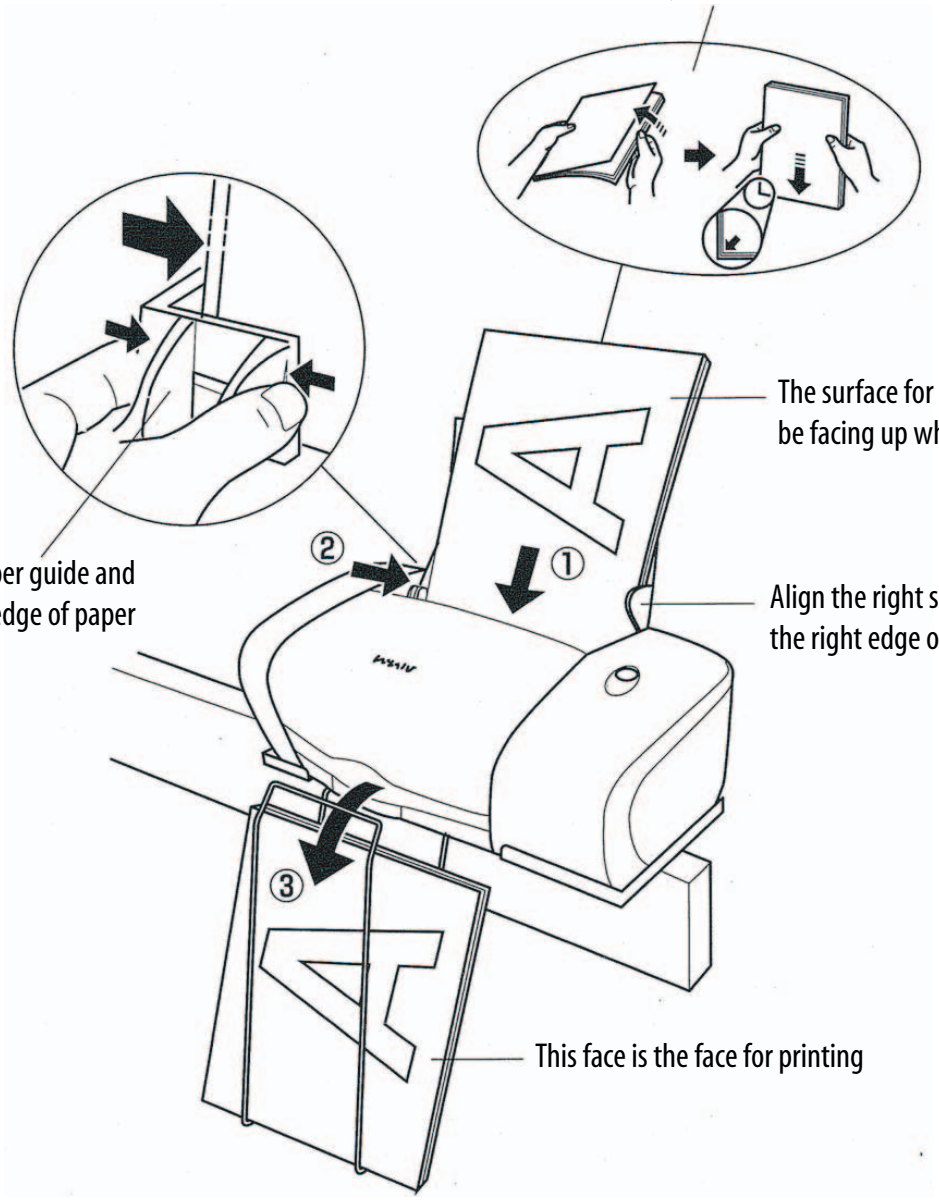
② Use this for presentations where projectors and OHP are used.

③ To prevent dust from clinging to the surface of the projection screen, press the feed key when finished to bring out the white sheet.



4 Setting the Paper

This section explains how to set ordinary A4 size paper.


Ruffle and align edge of papers neatly before setting
The surface for printing should be facing up when set.
Clip the paper guide and align with edge of paper
Align the right side of the paper to the right edge of the paper feeder.
This face is the face for printing
①
②
③

NOTE:

- Do not insert paper forcefully in the feeder.
- When papers that have been printed reaches 20 sheets, remove paper from stacker. Do not touch paper until ink is dry.

5 Papers that may be used

■ Notes regarding papers

Do not use the following paper types.
Not only printing is not good, the paper will get clogged and lead to failure.

- Folded papers
- Curled papers
- Wrinkled papers
- Damp papers
- Very thin papers (Weight: less than 64g / m^2 : tracing paper, etc.)
- Very thick paper (Weight: greater than 105g / m^2 : paper for screen use, etc.)

■ General use paper

Ordinary paper: A4 size
Ordinary paper for copiers (Weight: 64~105 g/m^2)

Reference

The weight of the paper that may be used in feeders should be 105g/m^2 or less. Greater than this, paper will clog the feeder and cause trouble.

■ When storing papers

Replace unused papers inside original bag and store in places that are not too hot or too humid and not expose to direct sunlight. Store in flat places to avoid wrinkles or folding of paper.

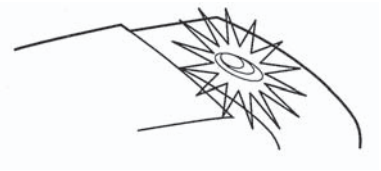
■ When holding paper

Hold the paper at the edge and avoid touching the face to be printed.
Scratches and dirt on the printing surface will degrade the quality of print.

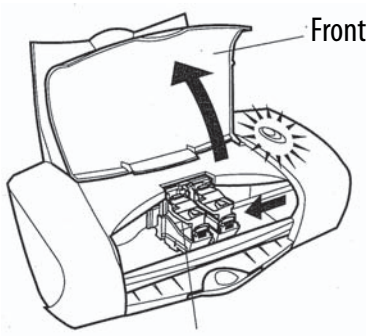
6 Changing Ink Cartridge

Replace empty cartridge as follows:

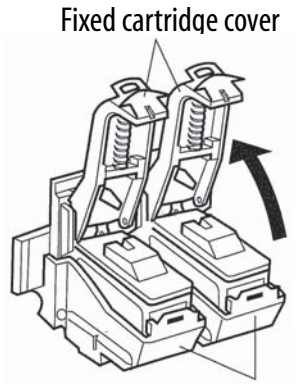
1 Turn on the power supply to the printer



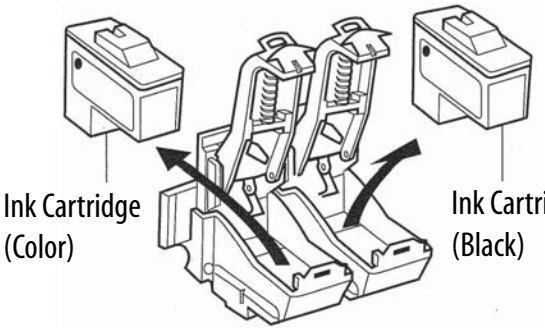
2 Check that no printing is ongoing and open the front cover. Move the cartridge carrier to the unloading position.



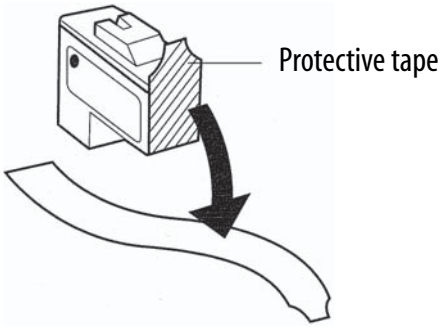
3 Press the lockbar in front of the cartridge holder for the left (color) and right (black) cartridges and open the fixed cartridge cover.



4 Remove the loaded cartridge and place inside a sealed container for disposal



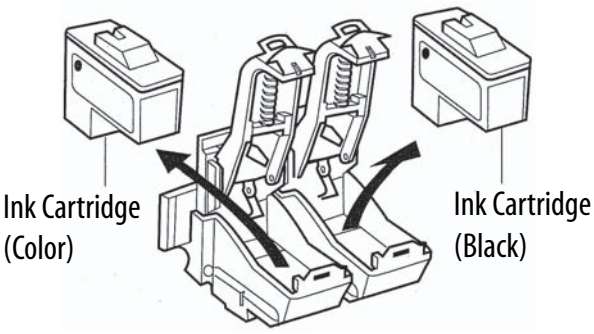
5 Dish out the new ink cartridge from the package and remove the protective tape from the print head



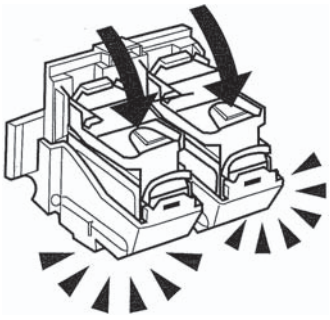
Note

Printing is not possible with the protective tape unremoved. Make sure to remove tape. Do not touch or remove the metal contact surface.

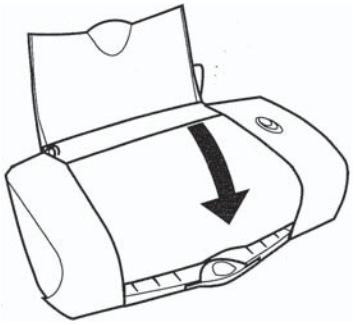
6 Set the ink cartridge into the cartridge holder.



7 Pull down the fixed cover until it produces a clasping sound.



8 Close the front cover

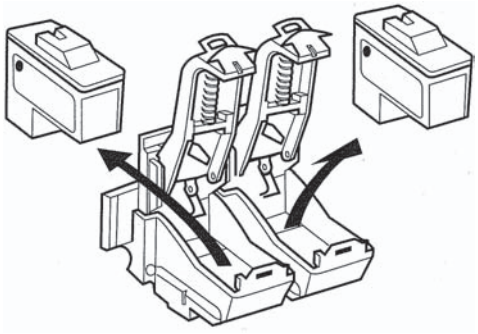


7 Maintaining the printer

Cleaning the new contact surface of ink cartridge nozzle

When printing becomes patchy or white lines appear, clean the contact surface of the nozzle of the ink cartridge of ink deposits with a clean damp cloth.

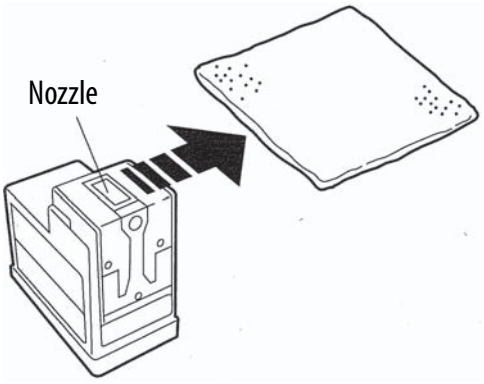
① Remove the ink cartridge from the printer.



② Dampen a clean cloth with lukewarm water and wipe the contact surface of the nozzle keeping wiping motion along the same direction.

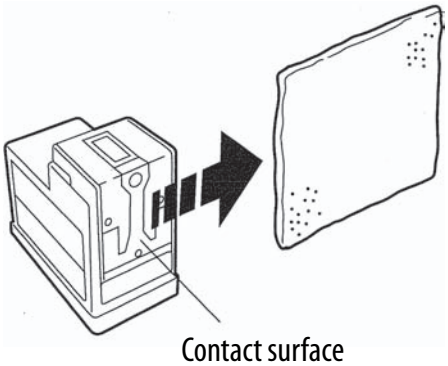
To thaw dried ink, press damp cloth on the nozzle or contact surface for 3 seconds and wipe gently to clean surface.

③ Wait until the area that was wiped dries.



④ Mount the cartridge into the printer.

⑤ Print the document once more.



⑥ When the printing is not improved, clean the nozzle one more time.

⑦ When printing does not improve still, change with new cartridge.

Precautions in handling ink cartridge

To ensure long use of ink cartridge and maximize printer capabilities, make sure to observe the following.

- Do not take ink cartridge from packaging until all preparations are ready.
- Do not remove the ink cartridge except when changing or cleaning. Store removed cartridges in a sealed container. Removing the ink cartridge and not using it for a long time dries the ink causing ink to clog.
  Ink cartridges replenished with ink might cause printer defect/trouble and might cause damage. This is not covered by warranty.
  To obtain best print results, use Lexmark brand ink cartridge. Trouble and damages caused by using brands other than Lexmark is not under warranty.

Purchasing Ink Cartridge

Buy ink cartridge from computer or household electronic shops.

Please order the following cord.

Type	Applicable Cord
Black	Standard type 16 or economy type 17
Color	Standard type 26 or economy type 27

Cleaning the roller

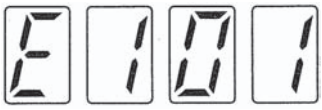
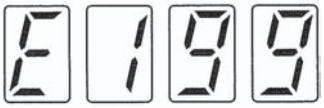
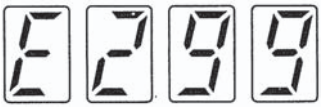
When paper is not properly fed, clean the rollers.

① Prepare commercially available cleaning sheet.
② Check that power is on.
③ Remove the protective paper on the cleaning sheet.
④ With the particle adhesive surface facing up, align the sheet to the right edge of the feeder.
⑤ Hold the paper guide and release release lever at the same time and slide in the cleaning sheet aligning the width of the sheet.
⑥ Press the power switch for about 5 seconds after which feed the cleaning sheet to the printer.
⑦ Press the power switch once more to eject the cleaning sheet.
⑧ Press the power switch to power up the printer.
⑨ Reverse the ejected paper down face up and set to the feeder aligning the edge to the right edge of feeder.
⑩ Repeat steps ⑤ to ⑦.

8 Error Display

Error display appears on the operation panel whenever an error occurs.

✲ Errors are displayed serially.

Error Display	Cause	Countermeasure
	● White sheet does not move at the proper speed.	● Check if white sheet is not pressed externally or that no foreign object is entrapped. Turn off power and remove any object trapped in or leaning on the white sheet, then turn on the power. If this does not work, call our customer service desk and inquire.
	● Other white sheet scrolling errors.	● Inquire from our customers service desk.
	● Printer power plug is not inserted.	● Printer is not connected to the power supply. Check printer connection and put on the power supply.
	● Out of printer paper.	● Provide paper replenishment and press the power switch.
	● Out of printer ink.	● Replace ink cartridge and press the power switch.
	● Paper is jammed.	● Remove the paper jammed and press the power switch.
	● Other printer error.	● Inquire from our customers service desk.

9 In cases like these… (Troubleshooting)

When despite performing the following countermeasures the problem is not solved or for conditions not mentioned below, inquire from our customer service desk.

Condition	Cause	Countermeasure
● Codes starting with the letter "E" blinks.	Device error occurs.	Section 8. Error Display (page 22) and do recommended countermeasure.
● Even with the power switch pressed, the green lamp for "power" does not light up.	The power plug is not inserted.	Insert the power plug into the outlet.
● Blank sheet or streaks results. Black sheet results.	Ink cartridge is not mounted properly.	Check if the protective tape is not removed. Check if the cartridge is properly mounted on the cartridge holder.
	The internal flourescent lamp is busted.	Call our customer support service and ask for lamp replacement.
● Black streaks appear.	If the "Dense" key is active, press the "Dense" key. If this does not solve problem, the internal flourescent lamp is busted.	Call our customer support service and ask for lamp replacement.
● Characters are pale or patchy.	Handwriting on the white sheet is too thin or too pale.	Thicken or darken handwriting. Press the "Dense" key, and darken the copy concentration. When "Dense" is chosen, dark spots appear on the white areas of the copy.
	Too little remaining ink in the ink cartridge.	Replace ink cartridge.
	Ink cartridge is dirty.	Clean the contact surface of the nozzle of ink cartridge.
● Color is not right.	No more ink in the ink cartridge.	Replace ink cartridge.
	Room temperature is too low.	Wait for at least 3 minutes.
● The printer power switch lamp blinks.	Either out of paper or paper is jammed.	Replenish paper on the feeder and press power switch. When paper is jammed, remove jammed paper.

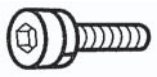
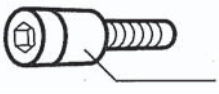
Condition	Cause	Countermeasure
● Printer power switch blinks twice or four times intermittently.	The cartridge carrier is stopped.	Turn printer power off, open front cover and remove the object that jams the carrier. Close the front cover and put power on.
● Printer blinks once followed by two blinks repeatedly.	Ink cartridge circuit is shorted.	Replace with new ink cartridge.

10 Assembling

Before Assembling

Check if the following listed parts are available or not, and proceed to the next steps.
Select a level place so that equipment does not topple down.

■ Stand Parts List

No.	Part Name	Quantity
1	Pole (with top cap)	2
2	Leg with caster	2
3	Horizontal bar	1
4	Allen bolt with washer (M8 x 35) 	4
5	Allen bolt collar (M8 x 40) 	6

- Tighten allen bolts with allen wrench (provided in the stand packing provided.)

■ Board Parts List

No.	Part Name	Quantity
1	Main board unit	1
2	Printer receiver board	1
3	Bolt for printer receiver board	2
4	Stacker	1
5	Magnet	2

■ Printer Parts List

No.	Part Name	Quantity
1	Printer Main Unit	1
2	Ink cartridge ✲ When freshly opened from packaging, the ink cartridge is preset already.	2
3	Ordinary A4 size paper	5

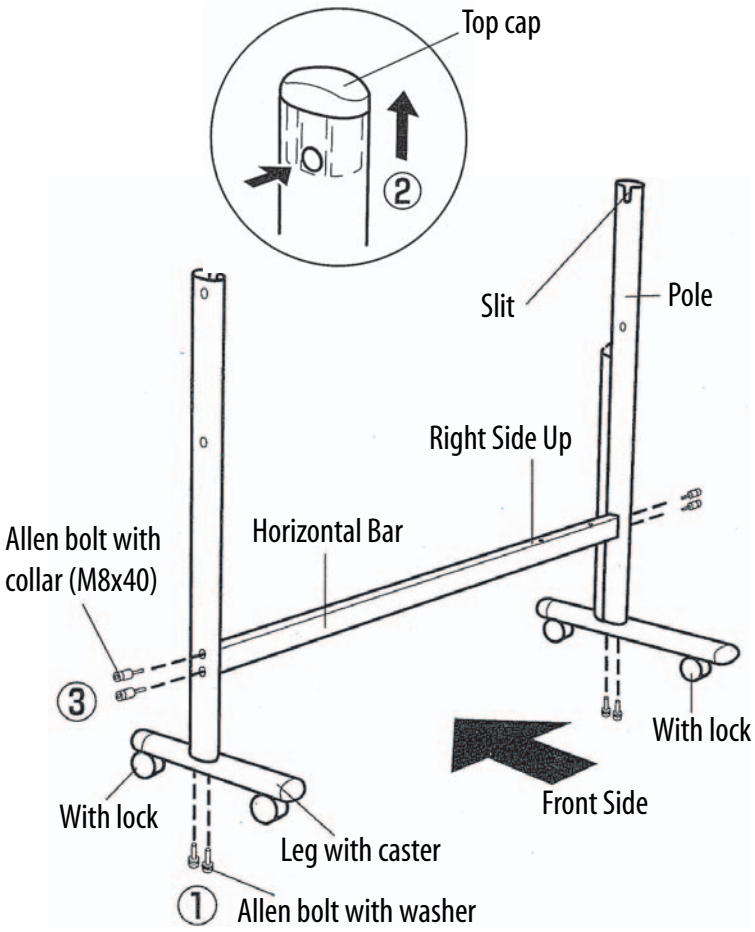
- This is a precision device, please handle with care.
- Shown is the stand fitted type (assembled type). For L, W types, please consult the shop where you bought the item.
- Please check p.35 on Auxilliary Parts List also.

Stand Assembly

① Assembling the pole stand and legs
Attach the pole to the caster with lock firmly with allen bolt with washer (M8 x 35).

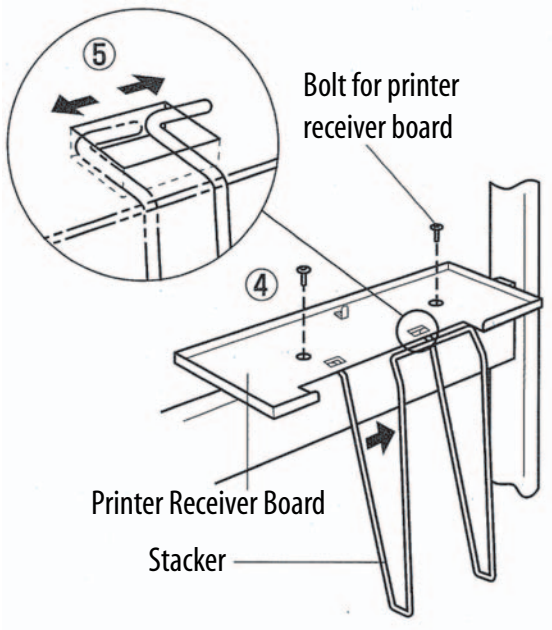
✲ Viewed from the front, the caster with lock should be right from and back left.

② Remove the top cap of the pole as shown in the figure on the right, pressing the button while letting the cap slide upwards.



③ Attaching the horizontal bar to the poles.
Turn the pole such that the slit at the top is inwards (the pole with the cable cover at the right side). Next with the horizontal bar thread hole to the right and up, place the bar between poles and fix the bar with allen bolt with collar (M8 x 40).

④ Attaching the printer receiver board
Turn the printer receiver board so that the part with cut is infront and fix the board at the right side of the horizontal bar.



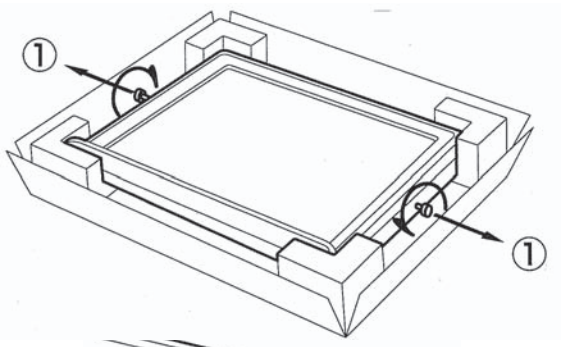
⑤ Attaching the stacker
Bend the stacker mounting end inward, insert into the groove on the printer receiver board to mount the stacker.

Mounting the board to the stand

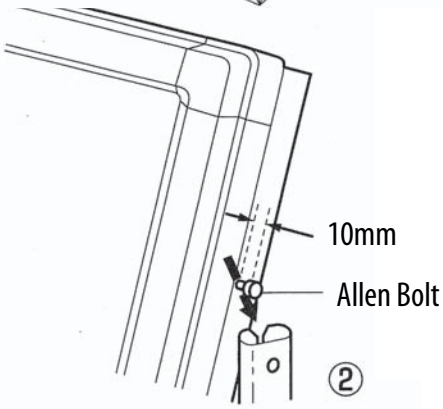
- Two persons should mount the board on the stand.

① Before thaking out the main board unit from the packaging, loosen the allen bolts at the left and right side of the board by about 10mm.

✲ Take out the board by holding the entire board and lifting it up not only front frame.



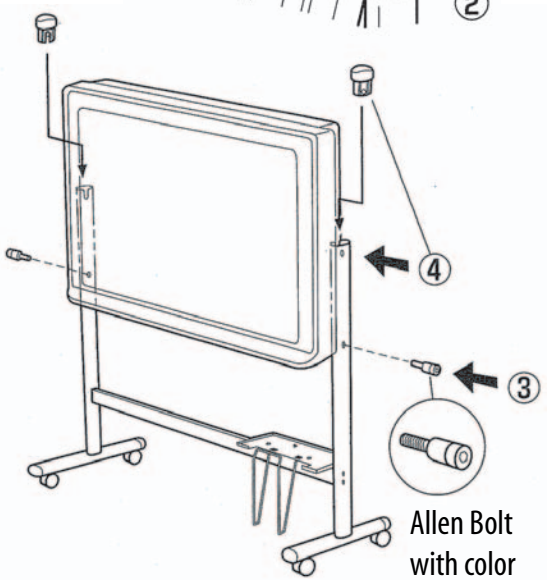
② Fit in the left and right allen bolt of the board to the upper part of the board.



③ Fix the board with the allen bolt with color at the middle of the pole stand.

NOTE

Removing the collar of the bolt when assembling the inner part of the board might get damaged and lead to fire or electrocution.

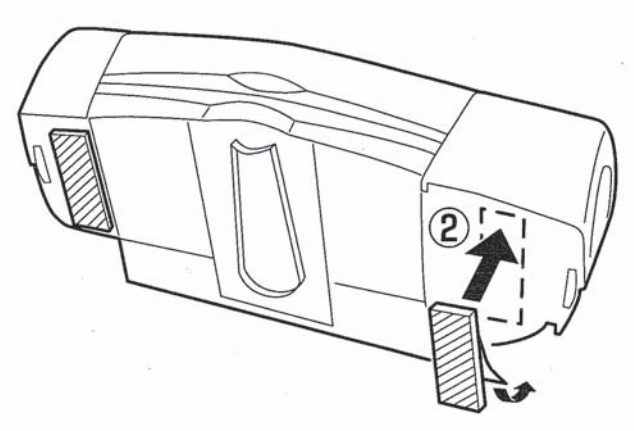


④ Tighten the allen bolts mentioned in ② and return the top cat removed earlier in place.

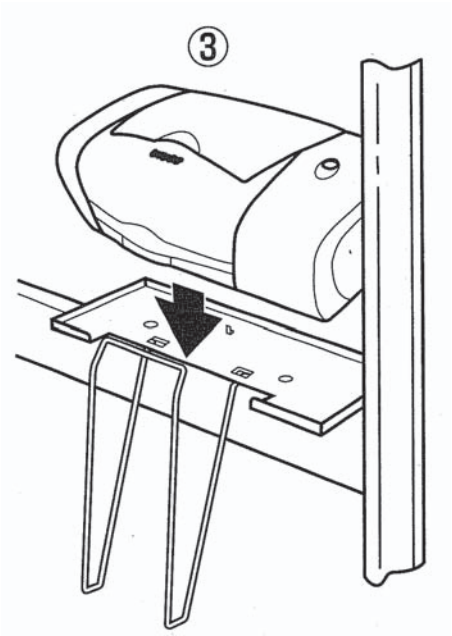
Mounting the Printer

① Remove all protective tapes.

② Peel off the cover paper on the adhesive tape of the magnet and attach at the bottom of the printer. (2 places)

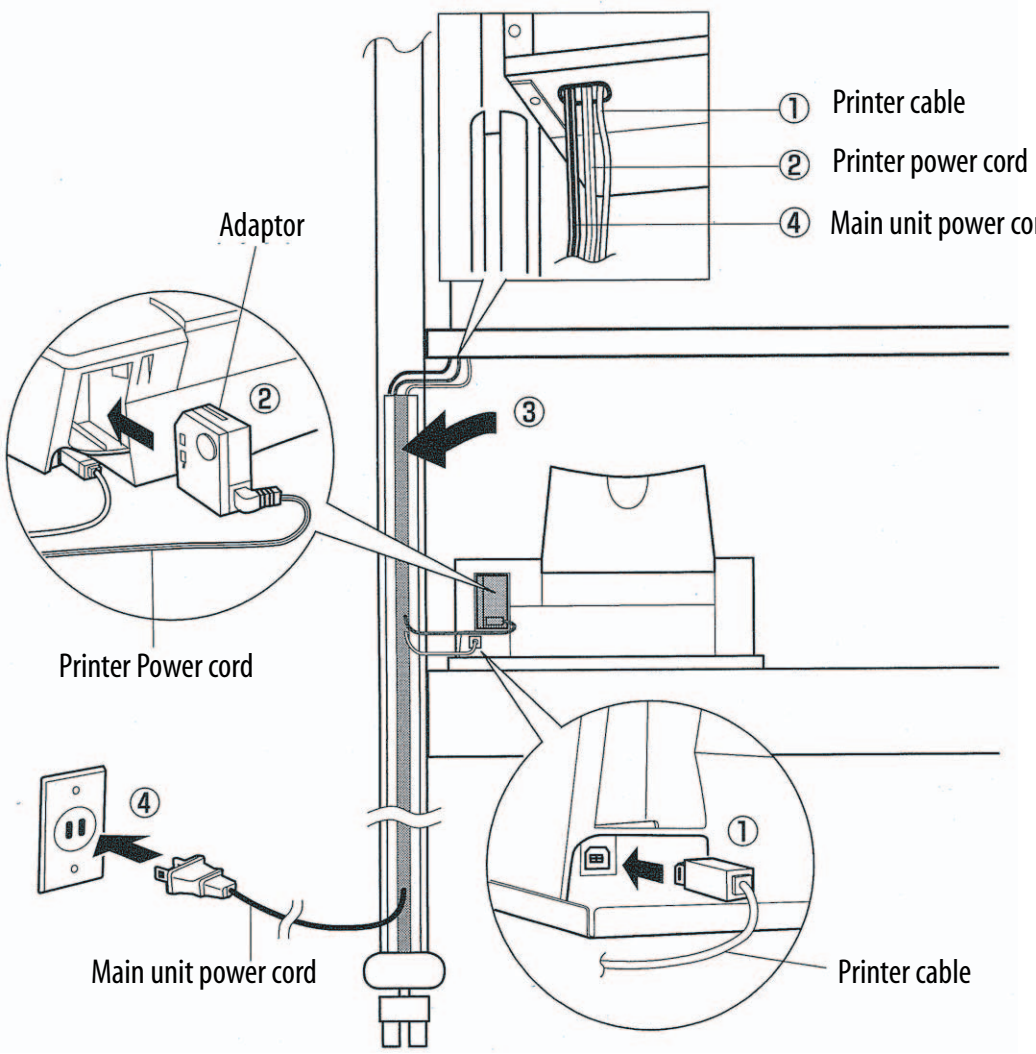


③ Place the printer on the printer mounting board.



Connecting the printer to the main unit

■ **Rear view diagram**



① Insert the printer cable from the lower part of the main unit to the printer. Align the connector properly and insert fully inside.

② Insert the printer power cord adaptor to the connection for the printer adaptor.

③ Place the cable and cord (3 cords) inside the cable cover on the right pole.

④ Insert the power cord plug of the main unit into the power supply outlet inside the room.

11 Protective paper of the White Sheet

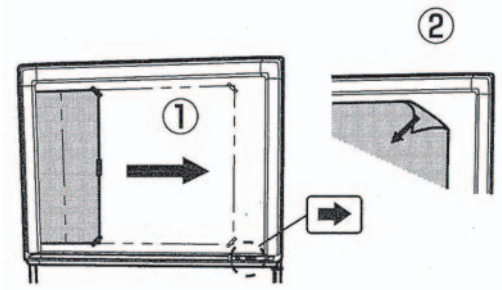
Protective sheet is provided only for 4-screen type.

LF-34 • LFW-34

Removing the protective paper

① A protective paper is attached at the rear side, hence, after assembly is completed, press the right feed key until the protective paper is fully on display.

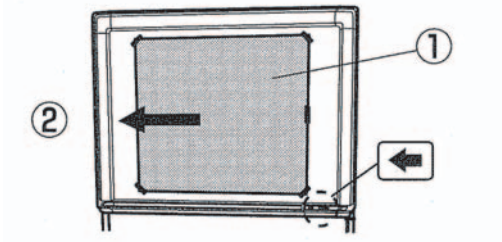
② Remove the protective paper.



Attaching protective paper

① To prevent the sheets from sticking to each other re-packaging or when moving the equipment, please cover the sheet surface with protective paper using tape.

② Move one screen to the left by pressing the left feed key.



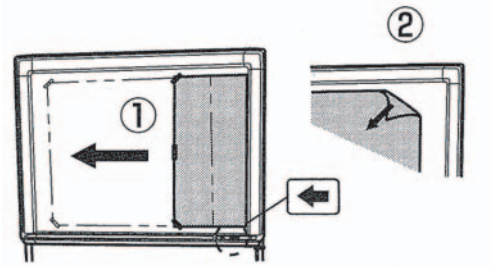
LF-33S • LFW-33S

Removing the protective paper

① After assembly is completed, turn on the power for the main unit. The current screen will scroll automatically to the right. A protective paper is attached at the rear side. Hence, press the left feed key and scroll one screen more.

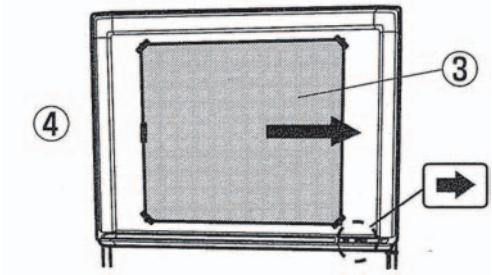
② Remove the protective paper when the protective paper is displayed fully.

☼ Be extra careful not to hurt the sheet surface when removing the protective paper.



Attaching protective paper

① To prevent the sheets from sticking to each other, when repackaging or when moving the unit, attach a protective paper on the sheet. Bring out the projection screen with the screen key.



② Scroll two screens using the left feed key.

③ Attach protective paper on the sheet with tape, etc.

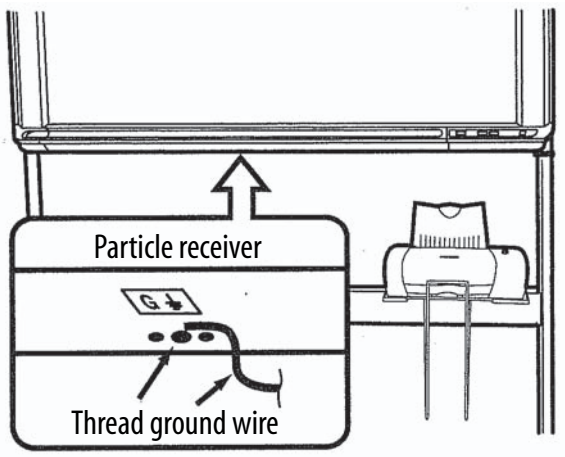
④ Scroll one screen with the right feed key.

⑤ Bring out projection screen using the screen key and put off power.

Ground Connection

⚠ Caution

Connect the unit to the ground when using in humid places.
Connect to earth from the M4 thread ground wire as indicated in the figure to the right.
The ground wire is not attached so please provide the ground wire.



12 Setting the date and time

Although adjusted at the time of shipment, please follow the procedure below when re-adjustment becomes necessary.

Setting the date and time

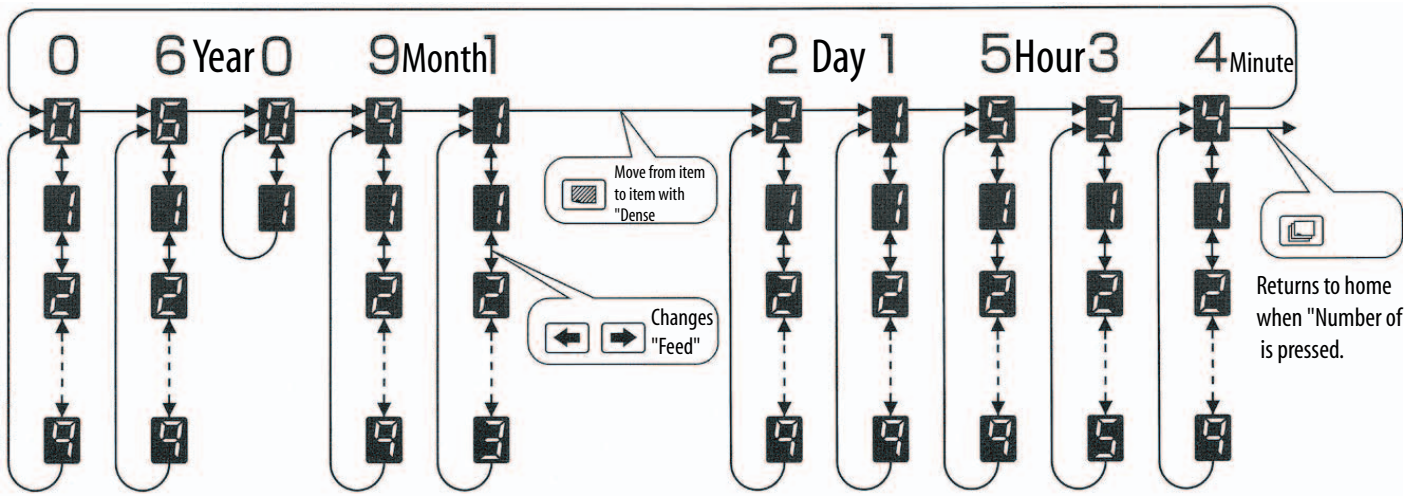
① Place into date and time setting mode

- Press the " ➡ " key and the "Dense" key and at the same time put the power switch to "|" position.
- Turning the power ON displays "▬" indicating the the unit is on date and time setting mode.

② Enter the date and time

- Pressing the "Number of Pages" key displays the second digit of the western calendar system.
- Press the "Dense" key to switch from year, month, date, hour and minute and adjust the values using the "⬅" and "➡" keys.

Example: 15:34, September 12, 2006


0 6 Year 0 9 Month 1 2 Day 1 5 Hour 3 4 Minute
Move from item to item with "Dense
Changes "Feed"
Returns to home when "Number of Pages" is pressed.

③ Save date and time to memory

- Pressing the "Number of Pages" key while setting the time prints the time enterred.

13 After Service

1. Warranty Certificate

Attached separately.
Read the warranty certificate received during setup very well and keep it safely.

2. Warranty Period

- One year from the date of installation.
- When repairs are requested within the period of warranty.
  Please read all items in this User's Manual and re-inspect the problem. Call the service help support when problem is not solved. As prescribed in this warranty certificate, repairs will be conducted by the sales outlet where the unit was bought or the service help desk.

  (What to describe when requesting assistance)
  Address, Name, Telephone number, product name, manufacturing number, description of trouble or abnormalities, date of visit desired.

- When requesting repairs after warranty period has elapsed.
  First, please consult the support help desk. When the repairs required supports the functionality of the equipment, repairs will be done with a fee as desired by customer.

3. Other Provisions

Please consult the sales outlet from where the product is bought or the service help desk mentioned at the end of this User Manual regarding repairs and after service items that are not clear.

14 Specification

	Item	LF-32	LF-31S	LF-34	LF-33S	Wide Type			
						LFW-32	LFW-31S	LFW-34	LFW-33S
1. Input Parts	1 External Form (including T-Leg)	1462mm(W) x 1900mm(H) x 620mm(D)				1962mm(W) x 1900mm(H) x 620mm(D)			
	2 Weight (including T-Leg)	~36 kg		~38 kg		~40.5 kg		~42.5 kg	
	3 Size of Board Surface	~1260mm(W) x (900mm(H)				~1760mm(W) x 900mm(H)			
	4 Effective size of Input Area	~1240mm(W) x 880mm(H)				~1740mm(W) x 880mm(H)			
	5 Number of screens	2screen (continuous)		4screen (continuous)		2screen (continuous)		4screen (continuous)	
	6 Screen number that could be copied	2screens	1screen (one screen is projection screen)	4screens	3screens (one screen is projection screen)	2screens	1screen (one screen is projection screen)	4screens	3screens (one screen is projection screen)
	7 Installation Copy	Carrier Sheet (Optional details, p.35)							
	8 Writing tool	Exclusive Marker (Black, Red, Blue, … 3 colors) • Green marker is not provided Recommended markers: Pilot whiteboard transparent marker WBMVM-20L-G							
	9 Sheet screen feed speed	~10seconds/screen							
2. Read / Write Parts	1 Readout	CCD sensor Linear Readout							
	2 Light source	Flourescent Lamp (35W High Frequency Light)							
	3 Printing Type	Thermal Ink Jet							
	4 Printing Paper	Ordinary Paper A4 (210x297mm)							
	5 Printer Quality	600 x 300 dpi							
	6 Outut paper size	A4 size							
	7 Number of pages to copy	1~9 pages							
3. Conditions of Use	1 Power / Cord Length	AC 220V-240V ± 10% (60Hz) / 3.5m							
	2 Ambient conditions	Temperature 10~35°C (when running) Humidity 45~80% (when running)							

15 Auxilliary Parts / Consumables / Optional Parts

Auxilliary Parts

The following items are included in this product. (Common to all brands)

No.	Part Name	Quantity	Remarks
1	Warranty Certificate	1 Copy	
2	User Manual	1 Copy	
3	Eraser	1 piece	
4	Marker (Black, Blue, Red)	1 each	

When parts are missing, please contact the sales outlet where the product is bought from.

Consumables

(Common to all types)

No.	Part Name	Product No.	Quantity	Remarks
1	Marker (Black)	103503	Green Marker (Black)	1 Dozen
2	Marker (Red)	103501	Green Marker (Red)	1 Dozen
3	Marker (Blue)	103502	Green Marker (Blue)	1 Dozen
4	Eraser	104005	CE-203	1 piece
5	Ink Cartridge (Black)	Standard Type 16 or Economy Type 17 (For details, see page 21)		
6	Ink Cartridge (Color)	Standard Type 26 or Economy Type 27 (For details, see page 21)		

Optional Parts

No.	Part Name	Product No.	Product Name	Size	Selling Unit
1	Carrier Sheet Standard Type	108935	LA-4-36	1188 x 840mm	1 Sheet
1	Carrier Sheet Wide Type	108937	LA-4-46	1688 x 840mm	1 Sheet

- Carrier Sheet (PET Film)
  Used when materials are attached on screen for copying.

- Place on standard mode when used for carrier sheet.
  (When in "Dense" mode, the sheet may become black.)

- Two persons should attach the wide carrier sheet type.
  To order or inquire prices of consumables/optional parts, please contact the sales outlet from which the equipment was bought.

This equipment is a Class A IT equipment that conforms to VCCI stnadards. When used in houledholds, electronic signal disturbances may result. The user might be required to take the necessary actions.

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This manual may be revised without prior notice.
For questions regarding items that are not clearly explaned or are doubtful in this manual, please contact the service desk near you.

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